

PEREVALOV, Ivan Mitrofanovich; SEMINA, V.P., red.; PUCHINSKAYA, T.I.
tekhn.red.

[Three phases in meat production] Tri plana po proizvodstvu
miasa. Irkutsk, Irkutskoe knizhnoe izd-vo, 1960. 23 p.
(MIRA 14:12)

(Meat)

VEDERNIKOV, A.A.; PEREVALOV, N.N.; TRAVIN, O.V.

Possibility of calculating the oxygen content in open-hearth metal during the finishing period. Izv. vys ucheb. zav.; chern. met. 6 no.9:55-61 '63. (MIRA 16:11)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metalurgii im. I.P.Bardina.

NESMYANOV, A.N., akademik; PEREVALOVA, E.G.; NIKITINA, T.V.

Synthesis of azoferrocene, its reduction and behavior under
conditions of benzidine rearrangement. Dokl.AN SSSR 138 no.5:
1118-1121 Je '61. (MIRA 14:6)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Ferrocene) (Benzidine)

PEREVALOVA, E. G.

USER/Chemistry - Reaction processes

Card 1/1 Pub. 22 - 14/45

Authors : Nesmeyanov, A. N., Academician; Perevalova, E. G.; and Golovnya, R. V.

Title : Reaction of ferrocene with diazo-compounds

Periodical : Dok. AN SSSR 99/4, 539-542, Dec 1, 1954

Abstract : Experimental data showing that ferrocene reacts not only with p-nitrophenyl-diazonium chloride producing p-nitrophenylferrocene (yield 64%), but also with other diazo-compounds yielding homologous arylferrocenes, are presented. The reaction between diazo-compounds and ferrocene, was found to be a suitable way of obtaining comparatively high yields of monoarylferrocenes, aryl-ferrocenes with different substitutes in the benzene nuclei. The mechanism of the reaction, is explained. Seven references: 3-USA; 3-German and 1-USSR (1885-1954). Graph.

Institution : The M. V. Lomonosov State University, Moscow

Submitted : November 11, 1954

PEREVALOVA, L. E.

6

✓ Reaction of ferrocene with diazo compounds. A. N. CH

Nemtsova, R. G. Petryalova, and R. V. Golovnya (M. V. Lomonosov State Univ., Moscow). Doklady Akad. Nauk S.S.R. 99, 639-42 (1954); cf. T. I. 49, 9633.— Diazonium compds. with ferrocene (I) yield primarily monoaryl derivs. in fairly good yields. The reaction probably is a radical reaction. To 5 g. I in 150 ml. Et₂O at -4° was added at once a filtered aq. soln. of ρ -NO₂C₆H₄N₂Cl (from 15 g. amine) which had been treated with urea to remove excess HNO₂, the raixt. was neutralized with NaOAc, stirred 30 min. at -4° (2.2 l. N was collected), and filtered yielded 7.5 g. solid. Evapn. of the Et₂O layer gave 3 g. residue which was combined with the above solid and extd. in a Soxhlet app. with petr. ether (b. 45-90°) 3 days; evapn. of the ext. gave 84% (ρ -nitrophenyl)ferrocene (II), red-violet plates, m. 167-7.5°. Ext'n. of the residue 3 days with EtOH, then 2 days with Me₂CO left behind 0.5 g. violet bis(ρ -nitrophenyl)ferrocene, does not melt, but turns brown at 200°; this is generally very slightly sol. but can be crystd. from cyclohexanone. II kept several days in petr.

ether in contact with an aq. suspension of Ag₂SO₄ and a trace of HCl produces color in the aq. layer owing to formation of (ρ -nitrophenyl)ferricinium cation, which gives a yellow ppt. with silicotungstic acid, just like the ferricinium cation (cf. Wilkinson, C.A. 48, 2053e). Similarly, I and ρ -MeC₆H₄N₂Cl gave 57% ρ -tolylferrocene, yellow, in 135-40° (from petr. ether); this heated with aq. KMnO₄, KOH 3 hr. gave ρ -C₆H₄(CO₂H)₂; shaking it in petr. ether with aq. Ag₂SO₄ and little HCl gave a yellow-green color, caused by the oxidation; with silicotungstic acid it gives a yellow ppt. Similarly was obtained 40% ρ -anisylferrocene, orange, m. 97-8° (from petr. ether), formed with a small amt. of p,p'-araoanisole, m. 102-3°. Oxidation of the former with KMnO₄ gave anisic acid. I with PhN₂Cl, as described above, run 0.5 hr. at room temp. gave 42% pentaphenylferrocene, yellow, m. 240-5° (decompn.) (from CCl₄). Absorption spectra of the products are shown. G. M. K.

2

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POLYMER CHEM.
NESMEYANOV, A.N.; PEREVALOVA, E.G.; GOLOVNYA, R.V.; SIMUKOVA, N.A.;
STAROVSKIY, O.V.

Reactivity of mono- and di(p-nitrophenyl) ferrocene and biacetyl-
ferrocene. Izv. AN SSSR. Otd. khim. nauk no.5:638-640 My '57.
(MLRA 10:8)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Iron)

Perevalova, E.G.

U S S R .

Alkylation and acylation of chloromercurialdehyde. A. N. Nesmeyanov and E. G. Perevalova (M. V. Lomonosov State Univ., Moscow). Izv. Akad. Nauk S.S.R., Otdel. Khim. Nauk 1954, 1093-7; cf. preceding abstr. Reaction of chloromercurialdehyde with acyl halides yields the corresponding vinyl esters, i.e., the reaction occurs with transfer of the reactive center along Hg—C and C—O bonds. Ph₃CBr reacts so as to form a C-alkylation product. To 3 g. powd. BrHgCH₂CHO (1) was added 3 g.

Ph₃CBr in dry C₆H₆, and after 2 hrs. at 50-50° the mixt. was refluxed 2 hrs., yielding 2 g. crude (0.9 g. pure) triphenylmercurialdehyde, m. 99-100.5° (*p*-nitrophenylhydrazine, m. 245-0°); a soln. of the crude product failed to react in the cold with Br in CHCl₃, indicating the absence of formation of a vinyl ether. To 19 g. activated Mg was added with stirring 3 g. CH₂:CHCH₂Cl in Et₂O, followed by 17 g. Ph₃CCl and 10 g. CH₂:CHCH₂Cl in Et₂O; after refluxing 5 hrs. and treatment with dil. HCl there was obtained 70% Ph₃CCH₂CH₂CH₃, m. 79.5-1° (from MeOH), which on ozonization and treatment with H₂O gave 43% Ph₃CCH₂CHO, m. 94.5-101°, identical with the above specimen. (*p*-O₂N₂H₂)₂CBr (3.8 g.) in CHCl₃ treated with 3.8 g. I and kept 2 days, then refluxed 3 hrs., gave 40% (*p*-O₂N₂H₂)₂COCH₂CH₃, decomp. 101-1.5° (from Me₂CO), which rapidly decolorizes Br₂CH₂ and heated with concd. HCl yields 84% (*p*-O₂N₂H₂)₂COH, m. 188-90°. Shaking 50 g. CH₂:CHCHO in C₆H₆ with 19 g. ClCH₂COCl 15-20 min.

62
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(over)

A. N. NESMEYANOV

followed by 2 hrs. at 00-70° and 2 hrs. refluxing gave 55% $\text{C}_6\text{H}_5\text{CO}(\text{CH}_2\text{CH}_3)_2$, b_{18} 13°-5-3°, n_D^{20} 1.4460, d_4 1.1941, with some $\text{C}_6\text{Cl}_5\text{CO}_2\text{H}$. Refluxing the ester with 20% H_2SO_4 gave 80% AcH and $\text{C}_6\text{Cl}_5\text{CO}_2\text{H}$. Similar reaction with $\text{C}_6\text{Cl}_5\text{COCl}$ gave 50% $\text{C}_6\text{Cl}_5\text{CO}(\text{CH}_2\text{CH}_3)_2$, b_4 67-8°, n_D^{20} 1.4674, d_4 1.14147, which was readily hydrolyzed to $\text{C}_6\text{Cl}_5\text{CO}_2\text{H}$ and AcH by 20% H_2O_2 . Similar reaction with PhCH_2COCl gave 50% $\text{PhCH}_2\text{CO}(\text{CH}_2\text{CH}_3)_2$, b_4 80-1°, n_D^{20} 1.5163, d_4 1.0533 which hydrolyzed readily with 20% H_2SO_4 . Similar reaction with PhOCOCl gave 48% $\text{PhCO}(\text{CH}_2\text{CH}_3)_2$, $m.p.$ 128.6-7.5°, which refluxed in aq. dioxane with 0.5% H_2SO_4 , 1 hr. gave 42% AcH . Similar reaction with $4-\text{O}_2\text{NC}_6\text{H}_4\text{COCl}$ gave 55% $p\text{-O}_2\text{N}(\text{C}_6\text{H}_4)\text{CO}(\text{CH}_2\text{CH}_3)_2$, $m.p.$ 66.5-70.5°, which was readily hydrolyzed by 20% H_2SO_4 . Similar reaction with N -phthaloylglyceryl chloride gave 49% $p\text{-Phthaloylglyceryl ester}$, $m.p.$ 101-5° (from ligroine), which readily hydrolyzed with 20% H_2SO_4 . G. M. K.

PEREVALOVA, E. G.

USSR

The reactions of substitution of hydrogen atoms in ferrocene. A. N. Nusseyanov, E. G. Perevalova, R. V. Golovnya, and O. A. Nenneyanova (M. V. Lomonosov State Univ., Moscow). Doklady Akad. Nauk S.S.R. 97, 459-61(1954); cf. Fischer and Jira, C.A. 47, 9202b; Woodward, et al., C.A. 48, 2031g.—Treatment of ferrocene (I) with $\text{Bi}(\text{OAc})_3$ at room temp. in $\text{Et}_2\text{O}-\text{EtOH}$ or $\text{EtOH}-\text{C}_2\text{H}_5$ gave an equimolar mixt. of *ferrocenylmercuric chloride* (II), decomp. 103-0° (orange-yellow solid; from xylene and BuOII) and *bis(chloromercuri)ferrocene*, yellow infusible very sparingly sol. solid. Both are converted to I on brief refluxing with concd. HCl . I readily forms *diferrocenylmercury*, yellow-orange, decomp. 233-4° (from xylene), on treatment with aq. $\text{Na}_2\text{S}_2\text{O}_3$. Refluxing I in Et_2O with excess BuLi 12 hrs. gave an equimolar mixt. of mono- and diliuoferrocene, which treated with CO_2 gave a mixt. of the corresponding monoc- (II) and dicarboxylic (III) acids in 30% yield, while about 35% I is recovered. II, yellow, decomp. 195-201° (from MePh-ligroine); M_p cts, m. 65-6° (from petr. ether). III, orange-yellow, does not decompose, or melt below 230° (from AcOH); *d*- M_p cts, m. 114-15° (from petr. ether or EtOH). The ready metathesis of I places it among the superaromatic systems like fulan or thiophene. I reacts with ρ - $\text{O}_2\text{NC}_6\text{H}_4\text{NCl}$ in aq. Et_2O medium, with loss of N_2 , yielding 64% of a ρ -nitrophenyl deriv. of I, cherry-red, m. 167-7.5° (from petr. ether), gives ρ - $\text{O}_2\text{NC}_6\text{H}_4\text{CO}_2\text{H}$ on oxidation by KMnO_4 . The reaction also yields 1-2% bin- ρ -nitrophenyl derivs. of I, violet, infusible solid (from cyclohexanone). I and PhN_2Cl yield a polydiazoyl deriv. of I to be described later. Treatment of I with a silicon anhydride of AcOH in C_2H_5 gave an *Ac* deriv. of I, red-orange, m. 81-3° (from petr. ether).

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240020011-0

R. N. Giemeyan
H₂O), which gives violet color in HCl; oxime, decomp.
163-8° (from dil. R₁OH); semicarbazone, decomp. 198-
201° (from R₁OH). O. M. Kosolapoff

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240020011-0"

PEREVALOV, G.Ye.

Analytic expression for the linear measure of a plane connected
set. Sib. mat. zhur. 5 no.3:626-638 My-Je '64. (MIRA 17:6)

P.PREVALOV, G.Ye.

Finiteness test for the linear measure of plane continua.
Sib.mat.zhur. 3 no.3:386-390 My-Je '62. (MIRA 15:9)
(Aggregate,

ARASLANOV, M.A.; GABITOV, G.S.; MILYUKOVSKIY, G.Ye.; RAYTMAN, Ye.A.;
KORCHEMGIN, N.I.; KHAVKIN, F.A.; PEREVALOV, L.N.; KHROMUSHKIN,
M.K.

Improvement of artificial sole leather drying techniques and
decreased dispensing of fiber in artificial leather for shoe
counters. Prom.energ. 18 no.2:9 F '63. (MIRA 16:2)
(Leather, Artificial--Drying)

PEREVALOV, M.; KOVALENKO, Ye., mokhanik

We are striving for the distinguished title. Rech. transp.
20 no.10:17 0 '61. (MIRA 14:9)

1. Kapitan teplokhoda "ST-517" (for Perevalov).
(Inland water transportation--Employees)
(Socialist competition)

PEREVALOV, N.

Our beacons shine brightly. Grazhd.av. 18 no.9:13-14 S '61.

(MIRA 14:9)

1. Predsedatel' territorial'nogo komiteta profsoyuza aviarabotnikov, Novosibirsk.

(Siberia, Western-Aeronautics, Commercial)

SOV.180-59-1-5/29

AUTHORS: Mogutnov, B.M., Perevalov, N.N. and Shvartsman, L.A.
(Moscow)

TITLE: Influence of Calcium Oxide on the Distribution of Tungsten
between Liquid Iron and Slag (Vliyaniye okisi kal'tsiya
na raspredeleniye vol'frama mezhdu zhidkim zhelezom i
shlakom)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye tekhnicheskikh
nauk, Metallurgiya i toplivo, 1959, Nr 1, pp 22-28 (USSR)

ABSTRACT: The object of the work described was to study the
behaviour of tungsten in oxide melts at high temperatures,
especially to obtain accurate data on the distribution of
the element between iron and slag in relation to thermo-
dynamic conditions. A successive saturation method,
described by Shvartsman and others (Refs 1-3) was used.
In this small portions of a previously prepared slag
containing a radioactive isotope of the element concerned
are added to the iron at a constant temperature until
further addition produces no further increase in the
radioactivity of the iron. The distribution coefficient
is calculated from the radioactivities of metal and slag.
The isotope (W^{185}) was added to the melted slag in an
induction-heated iron crucible in the proportion of

Card 1/3

SOV/180-59-1-5/29

Influence of Calcium Oxide on the Distribution of Tungsten between
Liquid Iron and Slag

50 mg (activity 1 millicurie) per 400 g of slag, which was kept molten long enough to allow complete oxidation and mixing. About 50 g of iron (electrolytic) were used, metal temperature being measured with a micro-optical pyrometer and kept constant. Fig 3 shows the count for metal samples at temperatures of 1600, 1640 and 1700°C. Results were reproducible even when equilibrium was approached from different directions (ie with excess or with deficiency of tungsten in the iron). The heat-content and entropy changes associated with the transfer of 1 g atom of tungsten from iron into slag were calculated from the distribution coefficient values at different temperatures (Fig 4 shows the linear relations between the logarithms of the coefficient and $10^4/($ absolute temperature)). With a slag consisting exclusively of iron oxides the heat-content and entropy changes were 14800 cal and 3.84 cal/degree g-atom, respectively. With lime-containing slags the heat-content change is greater, reaching (Fig 5) a value of 41000 cal for a slag with a molar fraction of CaO of 0.40 (all slag iron assumed to be

Card 2/3

SOV/180-59-1-5/29

Influence of Calcium Oxide on the Distribution of Tungsten between Liquid Iron and Slag

in the form of FeO). The authors discuss their own and published results (Refs 5 and 6) and estimate the heat of mixing of WO₃ with ferruginous limey slag. They conclude that this oxide has a pronounced acidic nature, and that with increasing basicity of open-hearth slags the oxidation of tungsten from liquid steel should increase.

Card 3/3 There are 6 figures, 2 tables and 7 references, 3 of which are Soviet, 3 English and 1 German.

SUBMITTED: March 1, 1958

PEREVALOV, N.N.; MOGUTOV, B.M.; SHVARTSMAN, L.A.

Effect of the basicity of slag on the oxidation of chromium
subgroup elements dissolved in liquid iron. Dokl. AN SSSR 124
no.1:150-152 Ja '59. (MIRA 12:1)

I. Institut metallovedeniya i fiziki metallov Tsentral'nogo nauchno-
issledovatel'skogo instituta chernoy metallurgii. Predstavлено
akademikom G.V. Kurdyumovym.
(Oxidation) (Slag)

PERZVALOV, N. N.: Master Tech Sci (diss) -- "Investigation of the distribution of the elements of the chromium subgroup between liquid iron and oxidation slags". Moscow, 1959. 24 pp (Acad Sci USSR, Inst of Metallurgy in A. M. Baykov), 170 copies (KL, No 13, 1959, 107)

MOGUTNOV, B.M.(Moskva); PEREVALOV, N.N. (Moskva); SHVARTSMAN, L.A. (Moskva)

Effect of calcium oxide on the distribution of tungsten between
liquid iron and slag. Izv.AN SSSR.Otd.tekh.nauk Met.i topl.
no.1:22-28 Ja-F '59.
(Tungsten--Isotopes) (Iron--Metallurgy) (Slag)

SMIRNOV, G.N.,kand.tekhn.nauk; PEREVALOV, N.N.,inzh.

Compressed-air transportation of wastes in cotton spinning.
Tekst.prom. 19 no.2:49-51 F '59. (MIRA 12:5)
(Cotton waste) (Pneumatic-tube transportation)

5(2,4)

AUTHORS: Perevalov, N. N., Mogutnov, B. M., Shvartsman, L. A. SOV/20-124-1-42/69

TITLE: The Effect of the Basicity of Slag on the Oxidation of Chromium Subgroup Elements Dissolved in Liquid Iron (Vliyaniye osnovnosti shlaka na okisleniye elementov podgruppy khroma, rastvorennykh v zhidkem zheleze)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 1, pp 150-152 (USSR)

ABSTRACT: The oxidation of the elements dissolved in iron is to a considerable extent due to the interconnection between the acid - basic properties of the forming oxides and the basicity of slag. Slags containing only iron oxides (iron containing slags) were regarded as neutral by the authors. They were regarded as the basis to which calcium oxide and silica, the most typical oxides occurring in slags with respect to their acid - basic properties, were added. The authors investigated the dependence of the distribution coefficient L of the corresponding element at low concentration between iron and slag in dependence on the composition of slag. L was determined

Card 1/4

The Effect of the Basicity of Slag on the SOV/20-124-1-42/69
Oxidation of Chromium Subgroup Elements Dissolved in Liquid Iron

according to the method applied in reference 1 with the help of radioactive isotopes Cr⁵¹, Mo⁹⁹ and W¹⁸⁵. The results obtained show that in all cases the dependence of L on temperature is satisfactorily expressed by the equation

$$\lg L = \frac{A}{T} + B \quad (1) \text{. } A \text{ denotes the heat effect of the reaction}$$
$$(\Delta H = -\frac{\Delta H}{4.575}) \text{, and the constant } B \text{ denotes the}$$

variation of entropy. The composition of the investigated slags is given in table 1. L as well as A and B depend but very little on the concentration of the calcium oxide in the case of chromium oxidation. The presence of SiO₂ in the iron containing slag means an increase of the heat of reaction of chromium oxidation. Cr₂O₃ is a basic oxide (Ref 3). The authors state that this oxide in the slag melts is to be regarded as a weak base. It can be seen (Table 1) that in the case of the introduction of calcium oxide into the slag L is doubled and trebled compared to the iron containing slag. Also the heat effect of the reaction increases. The introduction of silica

Card 2/4

The Effect of the Basicity of Slag on the SOV/20-124-1-42/69
Oxidation of Chromium Subgroup Elements Dissolved in Liquid Iron

has a contrary effect; the heat effect remains almost unchanged. This fact makes the conclusion possible that the decrease of L is caused by the entropy component of free energy. The main difference between molybdenum oxidation and chromium is therefore the fact that in the latter case a higher oxide is formed which clearly behaves like an acid in the slag. In the case of tungsten oxidation CaO has a rather increasing effect upon L and the heat of reaction (Ref 4). They are both reduced by SiO_2 . Thus, the balance of the oxidation reaction of

molybdenum and tungsten which form in the slag higher oxides with marked acid properties - depends considerably upon basicity. With respect to chromium this is the case only to a negligible extent. There are 1 table and 4 references, 3 of which are Soviet.

Card 3/4

The Effect of the Basicity of Slag on the SOV/20-124-1-42/69
Oxidation of Chromium Subgroup Elements Dissolved in Liquid Iron

ASSOCIATION: Institut metallovedeniya i fiziki metallov Tsentral'nogo
nauchno-issledovatel'skogo instituta chernoy metallurgii
(Institute of Metallography and Metal Physics of the Central
Scientific Research Institute of Ferrous Metallurgy)

PRESENTED: August 15, 1958, by G. V. Kurdyumov, Academician

SUBMITTED: August 13, 1958

Card 4/4

PEREVALOV, N.N., SIVARTSMAN, L.A.

"Distribution of the Chrome Subgroup Elements between iron and Ferrite Slag,"
lecture given at the Fourth Conference on Steelmaking, A.A. Baikov Institute of
Metallurgy, Moscow, July 1-6, 1957.

PAREVALOV, N.N., inzhener; KHARITONOV, A.S., inzhener.

Intensification of the final melting. Sbor.trud.TSNIICHM no.13:
109-126 '56. (MLRA 9:11)
(Zaporozh'ye--Open-hearth process)
(Oxygen--Industrial applications)

PEREVALOV, N.N.; TRAVIN, O.V.

Applicability of thermodynamic relations in simulating steel refinement
processes. Dokl. AN SSSR 163 no.1:83-86 J1 '65. (MIRA 18:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.
Submitted December 10, 1964.

PEREVALOV, N.Ye., inzh.; GIGGOR'YEV, A.M., doktor tekhn. nauk

Data for calculating planetary transmissions. Mashinostroenie
no.4:51-52 Jl-Ag '64. (MIRA 17:10)

PEREVALOV, S.S.

ASD preparation for treating some skin diseases. Vest.derm. i ven.
31 no.1:48 Ja-F '57. (MIRA 10:7)

1. Iz venerologicheskogo dispensera Omskoy zheleznoy dorogi.
(SKIN--DISEASES)

PA 27T3

PEREVALOV, V. A.

UNSSB/Arctic Studies
Ships, Icebreakers

May 1946

"Postwar Soviet Arctic," V. A. Perevalov, 4 pp

"Priroda" No 5

A general account of what the polar men of the Soviet Union endured during World War II and the efficient service rendered by the Main Northern Sea Route, which was kept open by a fleet of icebreakers headed by the famous "Lenin." Some highlights on the post-war period, such as archaeological expeditions and expeditions to the crater Yubiley, where the scientists recorded temperatures of 1,050 degrees.

ID

27T3

PEREVALOV, V. A.

ID

PA 36T19

USSR/Geography
Meteorological Research

Aug 1946

"Mid- and Central Asia in the Proceedings of the Russian Geographic Society," V. A. Perevalov, 4 pp
"Priloga" No 8

The major part of the knowledge which exists on mid- and central-Asia is due to the various expeditions started as early as 1845. Brief history of expeditions by the Society into this region and the contributions made by some of the more important expeditions. Recently, this time under the jurisdiction of the All-USSR Geographic Council, Academy of Sciences of the

ID USSR/Geography (Contd)

36T19

Aug 1946

USSR, expeditions have been studying the geographic, plant, meteorologic, and climatic characteristics of mid- and central Asia once again.

36T19

PEREVALOV, V. A.

Perevalov, V. A. - "Semen Dezhnev. "On the 300th anniversary of the opening of the Bering Strait (1648-1948)," (With Editor's footnotes), Problemy Arktiki, 1948 (Published in 1949), No. 3, p. 5-17, - Bibliog: 26 items

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

PEREVALOV, V. A.

21528 PEREVALOV, V. A.

Lomonosov issledovaniye Ark'tiki i otkrytiye Alyaski.
(K istorii ekspedtsii V. Ya. Chichagova i P. K. Kronitsyna).
Trudy Vtorogo Vsesoyuz. geogr. s"yezda. T. Sh. N., 1949, s. 243 - 40.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949.

PEREVALOV, V. A.

"Semen Dezhnev and His Geographical Discoveries,"

Nauka I Zhizn', No. 4, 1949.

PA 67/49T74

PEREVALOV, V. A.

USSR/Geography - Literature
Arctic

Aug 49

"Review of the Works of the Second All-Union Geo-
graphic Conference," V. A. Perevalov, 3/4 p

"Priroda" No 8

First volume contains minutes of the meetings and
reports made at the plenary session and in the Phys
Geog Sec, among them: Acad V. A. Obручев on Central
Asia, Prof V. Yu. Вize on the Arctic, and Acad O. Yu.
Шmidt on the "New Theory of the Origin of the Earth
and Planets." Other reports included were by: Acad
A. A. Grigor'yev, Ya. S. Eidel'shteyn, and

67/49T74

USSR/Geography - Literature (Contd) Aug 49

Ya. Ya. Lapushkin. Second volume is devoted to
Physical geographical problems.

67/49T74

PEREVALOV, V.A.

✓ USSR/Geography - Cartography

Feb 50

"Review of 'Works of the Second All-Union Geographical Congress,'" V. A. Perevalov

"Priroda" No 2, pp 84, 85

Subject works deal with mathematical geography and cartography, biogeography, history of geographical science, and the works of the section of ethnography, anthropology, and folklore. A. A. Izotov, in his paper, "Dimensions of the Terrestrial Ellipsoid According to New Data," states that the ellipsoid used for geodetic and cartographic works in the USSR has an equatorial semiaxis of 6,378.245 km and a flattening of 1/298.31

219T58

PEREVALOV, V. A.

PA 175771

USSR/Oceanography - Arctic Seas Jan/Feb 50

Literature

"Review of V. Yu. Vize's Book 'Seas of the Soviet Arctic,' " V. A. Perevalov

"Iz v-s Geograf Obshch" Vol LXXII, No 1,
pp 103-105

Favorable review of subject book, which is 3d ed in substantially revised and supplemented form (last 2 ed published 1936, 1939). Book covers great deal of material on studies during the Soviet period (including 1947). Two maps appended, one of polar region, the other on original map of drift of buoys in North

17571

USSR/Oceanography - Arctic Seas Jan/Feb 50
(Contd)

Arctic Ocean and in seas of Soviet Arctic. Indexes of geographical names, personalities, ships, and planes.

17571

PEREVALOV, V. A.

Bolotov, Andrey Timofeyevich, 1738-1833

Unknown works of A. T. Bolotov in phenology. V. A. Perevalov, Izv. Vses. geog. obshch., 54,
No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952 1643, Uncl.

TSYS', P.N.; KALESNIK, S.V.; SOKOLOV, N.N.; CHOCHIA, N.S.; PROTOPOPOV, A.P.; ZABELIN, I.M.; GVOZDETSkiy, N.A.; YEFREMOV, Yu.K.; KARA-MOSKO, A.S.; KOZLOV, I.V.; SOLNTSEV, N.A.; ISACHENKO, A.G.; ARMAND, D.L.; MIROSHNICHENKO, V.P.; PETROV, K.M.; KAZAKOVA, O.N.; MIKHAYLOV, N.I.; PARMUZIN, Yu.P.; GERENCHUK, K.I.; MIL'KOV, F.N.; TARASOV, F.V.; NIKOLAYEV, V.N.; SOBOLEV, L.N.; RYBIN, N.N.; DUMIN, B.Ya.; IGNAT'YEV, G.M.; MEL'KHEYEV, M.N.; SANEBLIDZE, M.S.; VASIL'YEVA, I.V.; PEREVALOV, V.A.; BASALIKAS, A.B.

Discussion at the conference on studying land forms. Nauk. zap. L'viv.
un., 40:231-267 '57. (MIRA 11:6)
1. L'vovskiy gosudarstvennyy universitet (for TSys', Gerenchuk, Dumin).
2. Laboratoriya aerometodov AN SSSR, Leningrad (for Sokolov,
Miroshnichenko, Petrov). 3. Institut geografii AN SSSR, Moskva (for
Armand, Sobolev). 4. Gosudarstvennyy universitet, Voronezh (for Mil'kov,
Tarasov). 5. Leningradskiy gosudarstvennyy universitet (for Chochia,
Isachenko, Kazakova). 6. Komissiya okhrany prirody AN SSSR, Moskva (for
Protopopov). 7. Gosudarstvennyy universitet, Chernovtsy (for Rybin).
8. Gosudarstvennyy universitet, Irkutsk (for Mel'kheyev). 9. Go-
sudarstvennyy pedagogicheskiy institut im. V.I. Lenina, Moskva (for
Vasil'yeva). 10. Bol'shaya Sovetskaya Entsiklopediya (for Zabelin).
11. Gosudarstvennyy universitet, Tbilisi (for Saneblidze). 12. Moskovskiy
gosudarstvennyy universitet (for Gvozdetskiy, Solntsev, Mikhaylov,
Parmuzin, Nikolayev, Ignat'yev). 13. Torgovo-ekonomicheskiy institut,
L'vov (for Perevalov). 14. Gosudarstvennyy institut im. Kapsukasa,
Vil'nyus (for Basalikas). 15. Muzei zemlevedeniya Moskovskogo go-
sudarstvennogo universiteta (for Yefremov, Kozlov). 16. Srednyaya shkola
No.13, Kiev (for Kara-Mosko). (Physical geography)

PER E VALOU, U.A.

SO(S)	Parthonenko, I.I.	807/10-59-4-27/29
AUTHOR:		
TITLE:	First Conference to Study the Development of Productive Forces of the Stanislavskiy Economic-Administrative rayon (Stanislav Economic District)	
PERIODICAL:	Izvestiya Akademii Nauk SSSR. Seriya Geograficheskaya, 1959, Nr. 4, pp 156-157 (USSR)	
ABSTRACT:	<p>This article covers the First Inter-Turk Conference to Study the Development of Productive Forces of the Stanislav Economic District and Methods to Conduct Economic and Geographical Research on the National Economy which took place in Chernovtsy from 6 to 10 April, 1959. The conference was organized by the Ministry of Higher Education of the Ukrainian SSR, the Ministry of Education and Science of the Chernovtsy State University, Chernovtsy University (Chernovtsy State University), and the Soviet narodnogo khozyaistva (Economic Council) of the Stanislav Economic District, with more than 100 scientists, educators, specialists, engineers, economists, and planning workers participating. 50 reports, 150 personal reports, and 150 personal publications who heard 50 reports. The following were delivered reports: E.M. Leutskiy, Chairman of the Chernovtsy State University; K.N. Leutskiy, Stanislav Economic Council Chairman, Deputy Chairman of the Chernovtsy Economic Council, lectured on the future development of that district during 1959-65 V.L. Chikyrenko - On "The Industrial Complex of Chernovtsy Economic District and Its Economic Prospects in the Future and Basic Tasks in the Development and Geographical Distribution of Agricultural Production in the Carpathian Areas of Chernovtsi Rayon"; G.G. Ivantchenko - On "The Present-Day Specialization Level in The Chemical Industry of the Stanislav Economic District and Its Future Development"; S.Y. Miltsev - On "The Industry of Chernovtsi Rayon in Its Future"; V. L. Kovalchuk - On "The Future of Chernovtsi Rayon"; V. V. Zhukovsky and V. A. Dzhomashvili - On "The Food Resources and Timber Industry of the Stanislav Economic District and Their Future Prospects"; V. V. Ponomarenko - On "A New Type of Economic-Administrative Division"; Institute of Commerce and Economics) - On "The Teaching of V.I. Lenin on the Modern Territorial Division of Labor as a Basis for Districts"; S.V. Zolotarev - On "The Method of Division of the USSR into Economic Districts"; L.S. Shishshnikov - On "The Division of the USSR into Low-Level Economic Districts"; L.S. Shishshnikov - Institute of Statistical Information as a Basis for the Location and Nature of Economic Districts"; G.S. Gulyaeva - On "The Geographical Research on Various Scales at Various Levels of Development Schemes of Economic Districts".</p>	

PEREVALOV, V.A.

M.V.Lomonosov's theory on underground waters, their forms and
activity. Geol. i geofiz. no.11:115-119 '61. (MIRA 15:2)
(Water, Underground) (Lomonosov, Mikhail Vasil'evich, 1711-1765)

FEREVALOV, V.A.

M.V.Lomonosov's works in the field of oceanography; on the 250th anniversary of his birth. Okeanologiya 1 no.6:1120-1123 '61.

(Lomonosov, Mikhail Vasil'evich, 1711-1765) (Oceanography)
(MIRA 15:1)

PEREVALOV, V.A.

Geomorphological problems in M.V. Lomonosov's works; on
the 250th anniversary of his birth. Sov.geol. 4 no.12:107-113
D '61. (MIRA 15:2)

1. L'vovskiy gosudarstvennyy universitet imeni I. Franko.
(Lomonosov, Mikhail Vasil'evich, 1711-1765)
(Geomorphology)

PEREVALOV, V.A.

Initial pages of the history of glaciology; on the 250th
anniversary of M.V. Lomonosov's birth. Vest.LGU 16 no.18:
104-108 '61. (MIRA 14:10)
(Lomonosov, Mikhail Vasil'evich, 1711-1765)
(Glaciology)

PEREVALOV, V.A.

Problems of physical geography in the works of M.V. Lomonosov;
on the 250th anniversary of his birth. Trudy Inst.ist.est.i
tekh. 37:3-16 '61. (MIRA 14:10)
(Lomonosov, Mikhail Vasil'evich, 1711-1765)
(Physical geography)

PEREVALOV, V.A.

V.I. Lenin and regional basis of the State Electrification Plan.
Izv.Vses.geog. ob-va 92 no.3:197-204 My-Je '60.
(Electrification) (Economic zoning)

(MIRA 13:6)

PEREVERTUN, M.P.

Spectral sensitivity of the eye at different levels of brilliance
in the field of vision. Trudy Sekt.astrobot.AN Kazakh SSR
7:54-63 '59. (MIRA 13:5)
(Vision)

Pekalongan

四庫全書

(संग्रहीत)

CONTENTS. This collection of 29 articles is published as Part I of the Transactions of the Committee on Industrial Chemistry of the American Chemical Society, and is divided into two parts—
"Chemical and Analytical Chemistry" and "Physical and
Technical Chemistry". The general subjects of the volume are:
Spectroscopic and colorimetric analyses; Thermodynamics and
kinetics; Optical properties of organic compounds; Photo-
chemistry; Polymerization; Catalysis; Kinetics of polymeriza-
tion; Polymer analysis; the sensitivity of the ordinary
chemical methods; Electrolytic methods; Spectroscopic
and chromatographic investigation of heterocyclic com-
pounds; A new method of determining small quantities of carbon;
A new method of determining urea; Spectroscopic investi-
gation of the behavior of substituted aromatic hydrocarbons in
aqueous solution; A new analytical and a kinetic method of
spectrophotometric and potentiometric determinations. The references
are given at the end of each article.

Optical-kinetic Method of Cell Analysis	82
Morabito, F., Dr. T. Goriely, and E. L. Verner. <i>Reaction</i>	82
Morabito, F., Dr. T. Goriely, and E. L. Verner. <i>Portuguese Letters</i> 41-	230
Morabito, A. R., Dr. S. Schmid, and A. L. Finckh. <i>Antimicro-</i>	266
<i>Bacteriology</i> 1970	266
Pilat, A. R., and A. L. Finckh. <i>Instrument for the Photoelectric</i>	272
<i>Determination of a Percentage Flame Under Industrial Conditions</i>	272
Pilat, A. R., V. V. Malinov, and S. A. Gorbach. <i>Statistical Study of</i>	272
<i>Reactions Involved With Polyacrylic Colloids in FCC and</i>	272
<i>Hydrogen Peroxide</i>	272

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APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240020011-0"

PEREVALOV, V. G.

"Purification of Industrial Waste Water Containing Emulsified Petroleum Products."
Sub 20 Mar 51, Moscow Order of the Labor Red Banner Construction Engineering Inst imeni
V. V. Kuybyshev

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

Lead Tech. Ser

KOLOBANOV, S.K.; PEREVALOV, V.G.; BULAVA, M.H., redaktor; MINEVICH, I.,
tekhnicheskiy redaktor.

[Supplying water to construction sites] Vodosnabzhenie stroitel'-
nykh ploshchadok. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1953.
140 p.

(Water supply) (Building)

(MLRA 8:2)

PEREVALOV, V.G.

Removal of emulsified petroleum products from sewage by means of
aluminum sulfate. Ukr.khim.zbir. 19 no.2:223-229 '53. (MLRA 7:4)

1. Kiyevskiy inzhenerno-stroitel'nyy institut.
(Water--Purification) (Aluminum sulfate)

PEREVALOV V.G.

AID P - 543

Subject : USSR/Engineering
Card 1/1 Pub. 78 - 9/29
Author : Perevalov, V. G.
Title : Coalescent filter in the oil trap
Periodical : Neft. Khoz., v. 32, #7, 39-43, Jl 1954
Abstract : The author presents the analysis of the oil trap with and without the coalescent filter and makes a comparison of the wetting action of the "hydrophobic" and "hydrophilic" materials. The importance of wetting ability of filtering materials is demonstrated in a set of experiments and in the table. 3 drawings and 5 Russian references (1948-1952).
Institutions: Azerbaydzhan Petroleum Scientific Research Institute (Az.NII); Ufa Petroleum Scientific Research Institute (Uf.NII); All-Union Scientific Research Institute for Water Supply, Sewer Systems, Hydro-Engineering and Hydro-Geological Constructions (VODGEO)
Submitted : No date

PURIFICATION, V.C.

Purification of refinery waste water by flotation. V. O. Pereslavl. Neftegaz. Koz. 34, No. 10, 57-6(1950).
Experiments were made to determine if waste water can be purified by flotation without the use of coagulants. The method selected consisted in introducing air through filter stones with a pore size $\leq 3.5 \mu$. Air bubbles floated the oil droplets to the surface at the rate of 0.9 cm./sec., while rate of droplet rise in the absence of air was about 1 μ /sec. The foam formed on the surface coalesced into an oil film after the bubbles burst. When air was used at 1-atm. pressure, 16 mg./l. of oil remained in the water after 150 min. of aeration, and the same results were obtained in 70 min. with air at 1.5-atm. pressure. The 1-min. residual oil content of 0 mg./l. was obtained with air at 1.5 atm. in 120 min. and in 75 min. at 2 atm. The pH of the water did not affect the results. Foaming agents, if not originally present, can be added. The effluent obtained was clear, colorless, or faintly yellow, and was either odorless, or had only a slight petroleum odor.

W. M. Sternberg

PEREVALOV, V.G.; ALEKSEYEVA, V.A.

Quality of waste water injected into oil layers. Nefteprom.
delo no.10:19-22 '65.

(MIRA 14:1)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

PEREVALOV, V.G.

Preparing the waste water of oil fields for use in the regeneration
of oil fields. Trudy VNII no.41:245-256 "U".

(1975) 1975.

PEREVALOV, V.G.; KARAPAYEV, B.I.

Industrial purification of waste water by flotation. Khim.i tekhn.
topl.i masel 8 no.11:39-43 N '63. (MIRA 16:12)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

PEREVALOV, V.G.

Using formation waters in flooding. Nauch.-tekh, sbor po dob.
nefti no.13:87-90 '61. (MIRA 16:7)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.
(oil field flooding)

KARAPAYEV, B.I.; PEREVALOV, V.G.

**Effect of surface active agents on the processes of sewage
purification. Neft. khoz. 40 no.6:53-56 Je '62. (MIRA 15:5)
(Petroleum waste) (Surface active agents)**

PEREVALOV, V.G.; ALEKSEIEVA, V.A.

Using diatomite for filtering water in oil production. Neft.
khoz. 39 no.4:52-55 Ap '61. (MIRA 14:6)
(Diatomaceous earth)

PEREVALOV, V.G.

Dehydration of sludge in water purification works. Vod. i san.
tekhn. no.11:26-28 N '59. (MIRA 13:3)
(Water--Purification)

PEREVALOV, V.G.

Cleaning industrial waste water by gas isolated in electrolysis.
Trudy VNII no.16:195-199 '58. (MIRA 11:12)
(Sewage--Purification) (Electrolysis)

PEREVALOV, V.G., red.; LOZBYAKOVA, Ye.S., vedushchiy red.; POLOSINA, A.S.,
tekhn. red.

[Contamination control of streams and lakes; papers at the conference on the control of sewage pollution of streams and lakes]
Bor'ba s zagryazneniem vodoemov; materialy konferentsii... Moskva,
Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1958.
(MIRA 11:10)
111 p.

1. Konferentsiya po bor'be s zagryazneniyem vodoemov stochnymi
vodami. 1956. (Water--Pollution) (Petroleum industry)

KARELIN, Yakov Aleksandrovich; PARSHALOV, Vyacheslav Georgiyevich;
SMIRNOVA, A.P., red. izd-vs; OSENKO, L.M., tekhn. red.

[Removal of petroleum products from waste waters; foreign
practices] Ochistka stochnykh vod ot nefteproduktov; za-
rubezhnyi opyt. Moskva, Gos. izd-vo lit-ry po stroit..
arkhit. i stroit. materialam, 1961. 130 p. (MIRA 14:5)
(Sewage--Purification)
(United States--Petroleum industry--Water supply)

PEREVALOV, V.G.

Removing petroleum from waste waters by the method of flotation.
Vod. i san. tekhn. no.6:15-18 Je '58. (MIRA 11:5)
(Sewage--Purification)

PEREVALOV, V. I.

Technology of Ceramic Shapes (Tekhnologiya Keramicheskikh Izdelii). P. P. BUDNIKOV, A.S. BEREZHOV, V.I. PEREVALOV, and I.S. SMLEYANSKIY. Published by Gosstroyizdat, Moscow, 1946. 524 pp., 208 illustrations. Price 36.25 rubles. Reviewed in Steklo i Keram., 5 (11) 23-24 (1948).-Part I covers raw materials. Technological properties and the scientific basis are presented in the light of modern physicochemical views. Part II covers structural ceramics; Part III, stone-ceramic shapes; and Part IV, refractory shapes. Parts V and VI are limited to glazes and ceramic colors. Numerous errors in the book are pointed out. It is approved as a text for chemical-technological institutes and faculties by the Ministry of Higher Education.

B. Z. K

C.S.

General
14

Storage of raw materials in refractory plants. Double
factor in production. V. I. Panfilov and S. M. Al-
masov. Ogneupory, 1966, No. 5-6, pp. 313-19. Sugge-
stions are given to minimize the great waste taking place
during the storage of raw materials. M.V.C.

27-92. Technology of Refractories. V. I
Perevalov. 528 p. State Scientific-Technical Publishing Home for Ferrous and Nonferrous Metallurgy. Moscow. U.S.S.R.
(In Russian.)

In Russian)
College text analyzes properties of the raw materials used by the refractory industry, modern commercial production methods and equipment and the fundamental principles of the reactions taking place during the manufacture of refractories.

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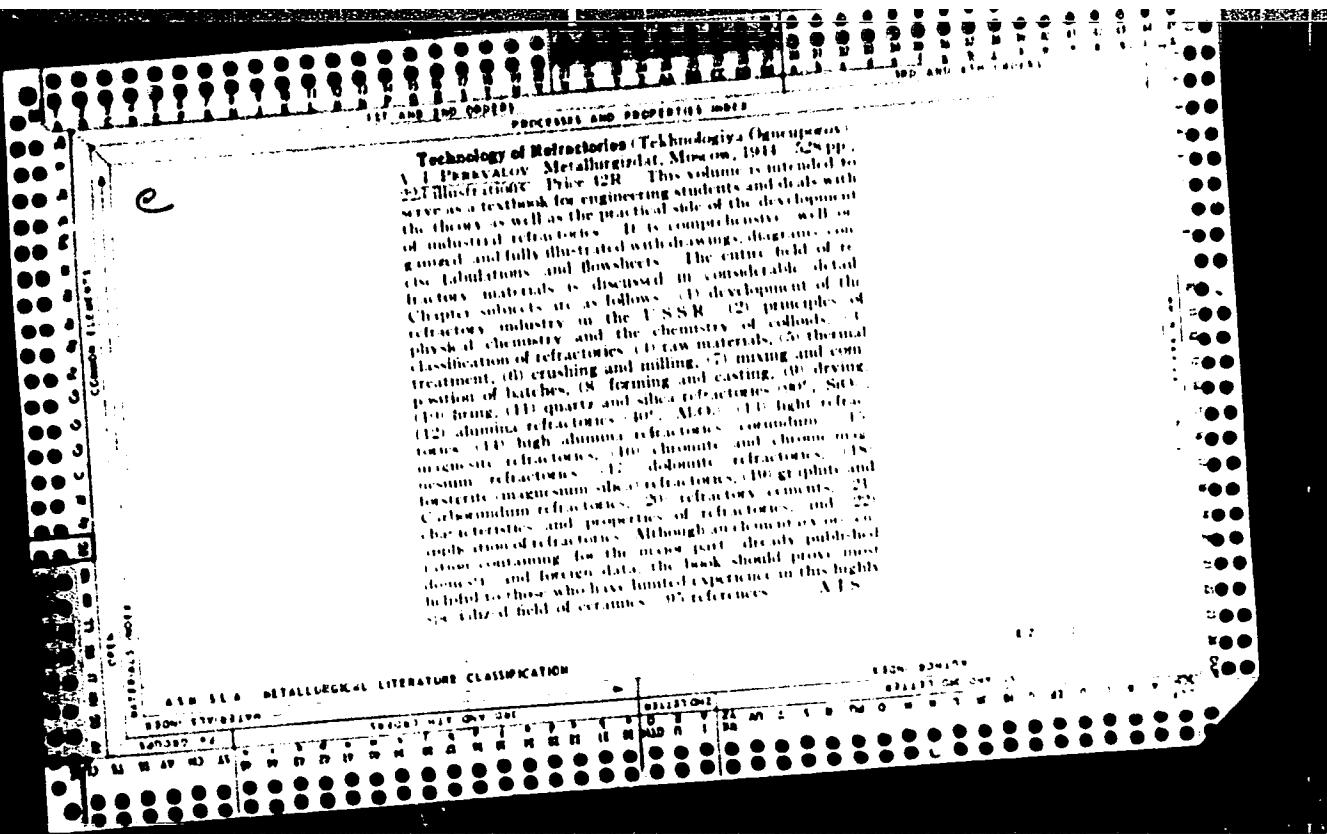
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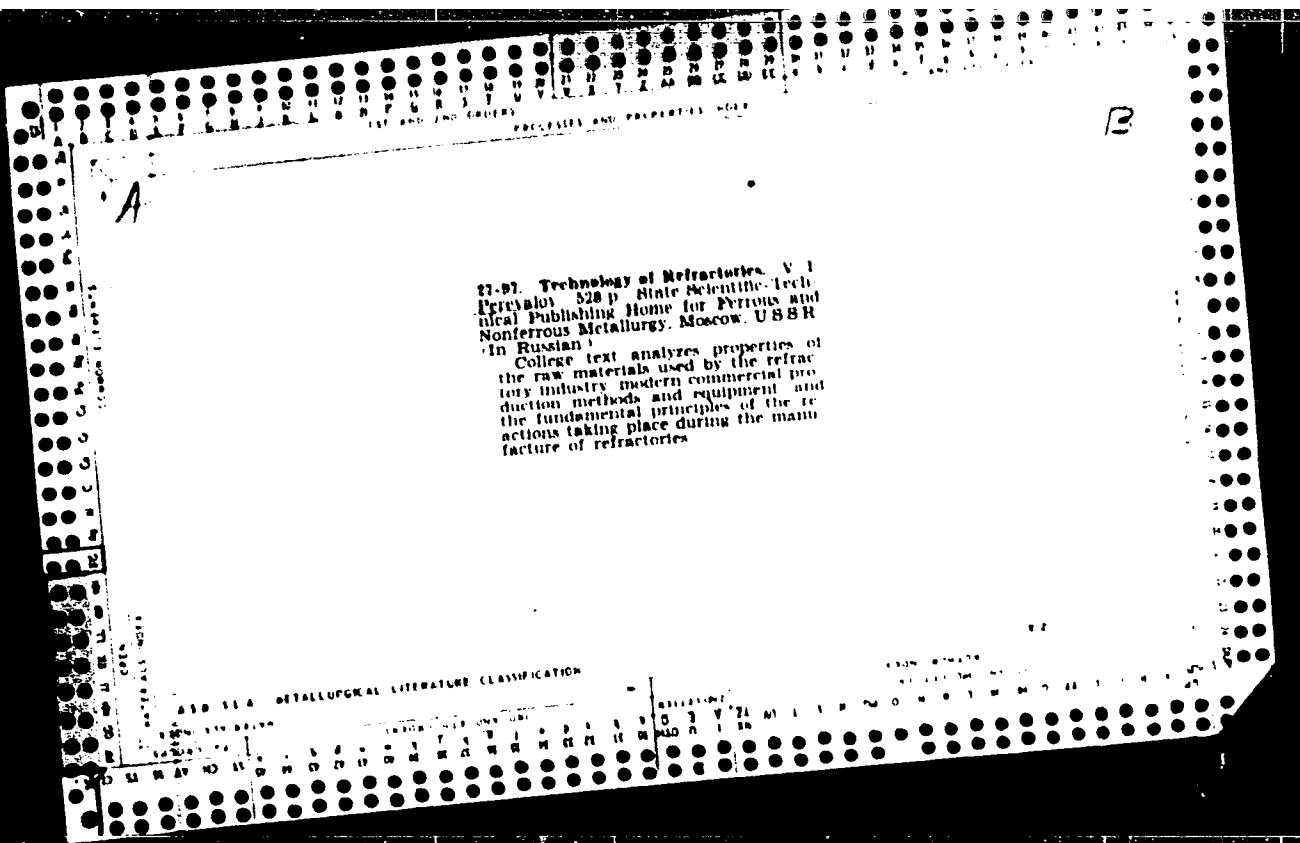
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TO R. P. DODGE, DEPT OF DEFENSE, 1 JULY, 1947

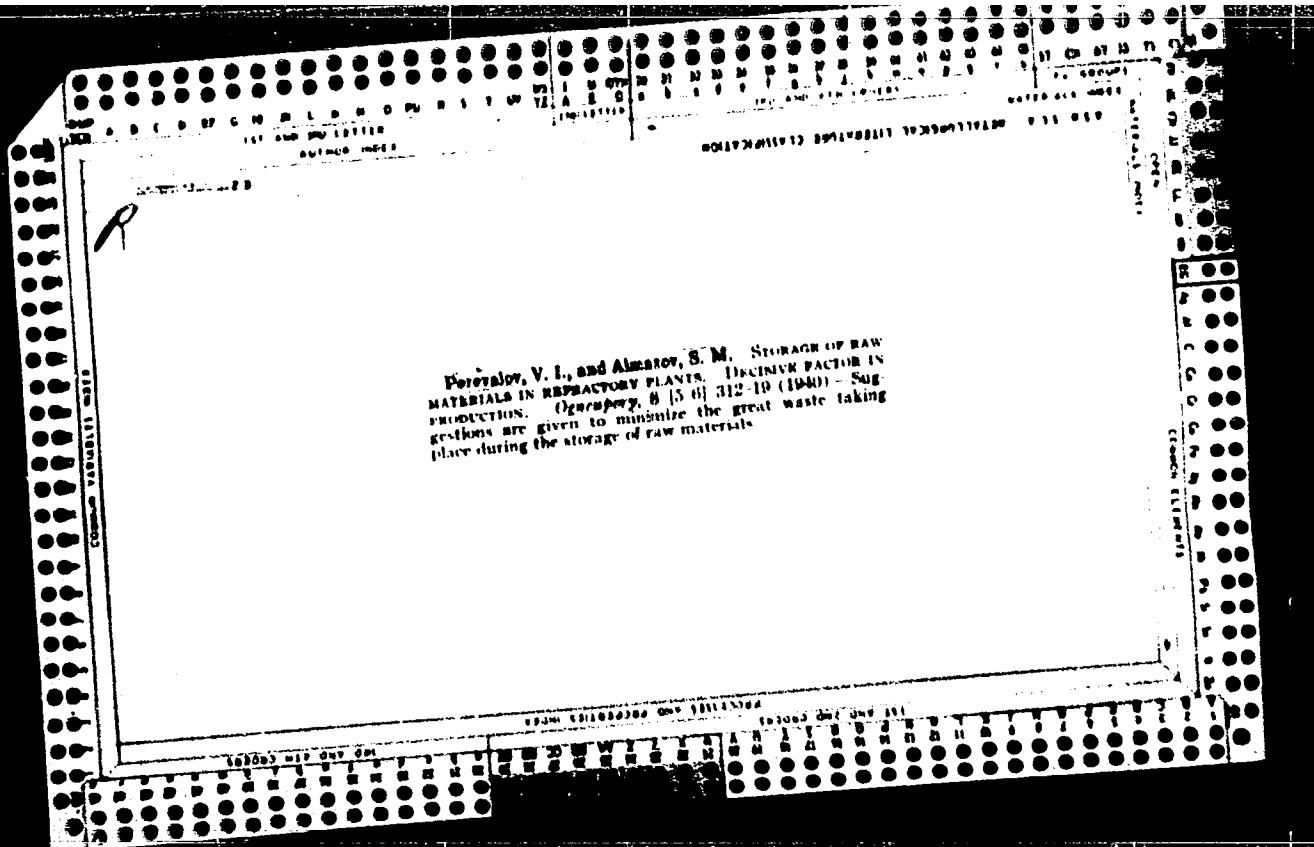
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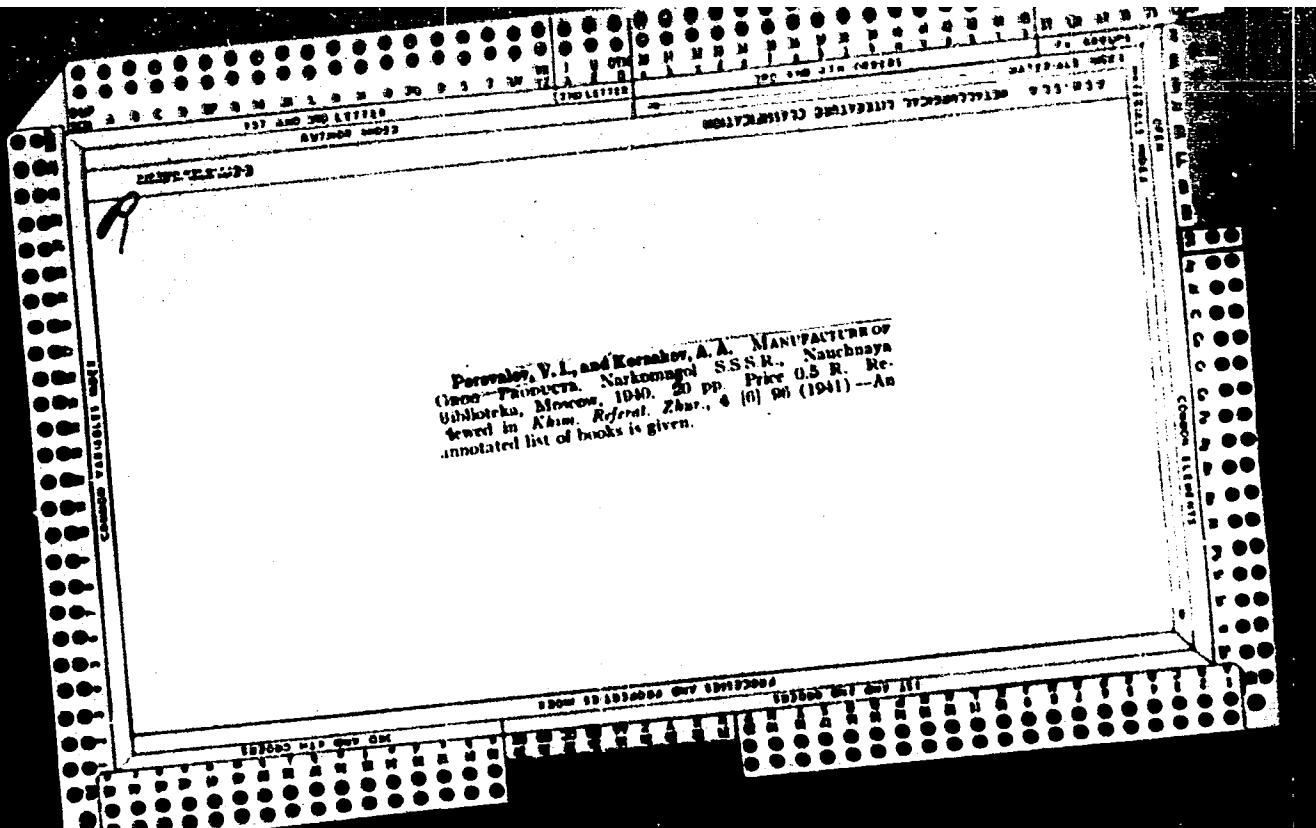
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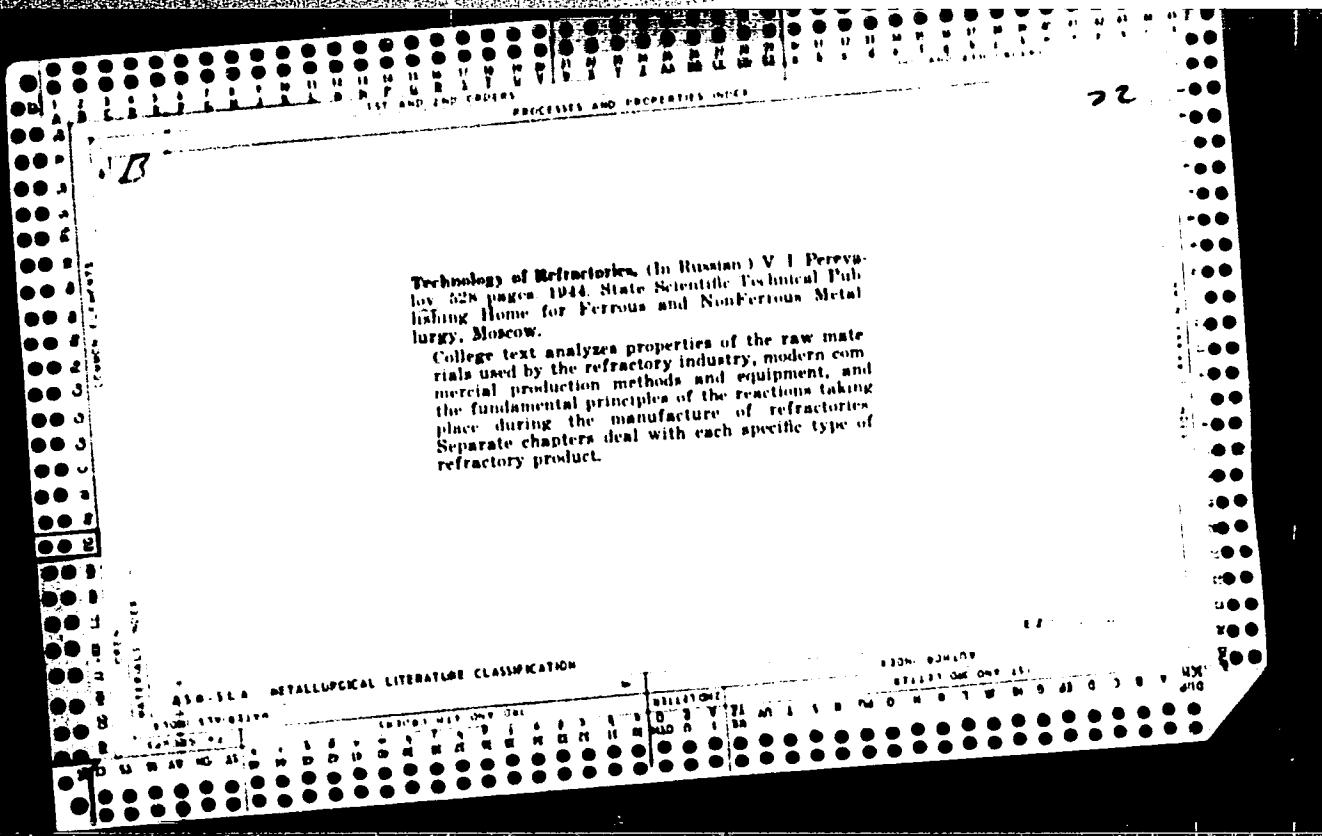






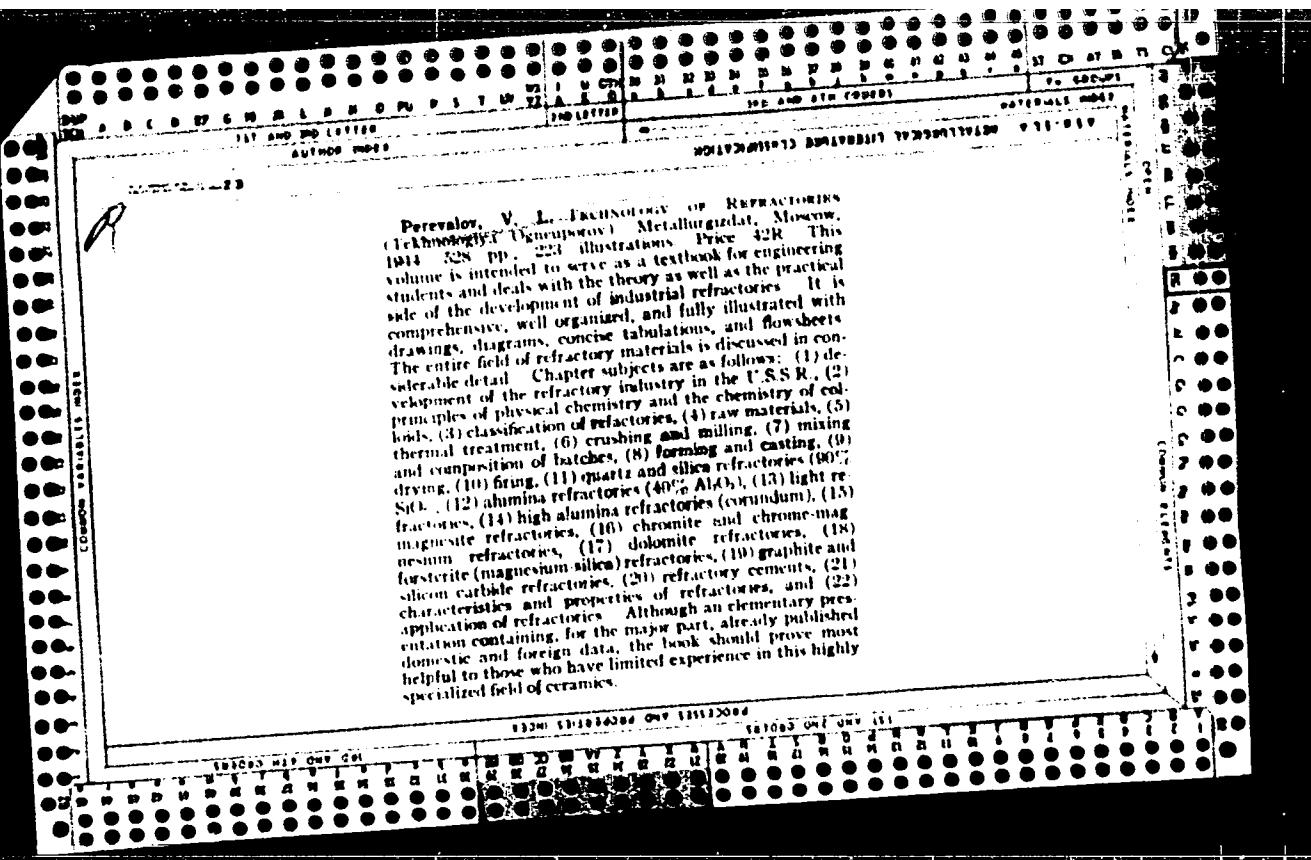
J. H. [unclear]

Manufacture of Orga Products. V. I. Pervyakov,
AND A. A. Kosakov. Narkomuz S.S.R., Nauchnaya
Biblioteka, Moscow, 1940. 30 pp. Price 0.5 R. Re-
viewed in Khim. Referat. Zhur., 6 [6] 96 (1941).—An an-
notated list of books.



APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240020011-0"



1. PEREVALOV, V. N.
2. USSR (600)
4. Kuril Islands
7. Kuril Islands. A. Solov'ev. Reviewed by V. N. Perevalov. Izv. Vses. geog. ob-va 79, No. 5, 1947.

}

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

36634-65 ENT(m)/EPF(c)/EVP(j) PC-4/Pr-4 RW

ACCESSION NR: AP5001517

S/0020/64/ 59/005/1075/1078

AUTHOR: Gubin, S. P.; Grandberg, K. I.; Perevalova, D. G.; Nesmeyanov, A. N.
(Academician)

TITLE: Transannular electronic effects in the ferrocene nucleus. Dissociation
constants of substituted ferrocene carboxylic acids

SOURCE: AN SSSR. Doklady, v. 159, no. 5, 1964, 1075-1078

TOPIC TAGS: ferrocenecarboxylic acid, dissociation constant, substituent effect,
induction effect

ABSTRACT: In this work an investigation was made of the transmission of elec-
tronic effects in ferrocene using ferrocenecarboxylic acids in which the substitu-
ent and the reaction center are located in different rings. The apparent dissocia-
tion constants of these acids were measured potentiometrically in 50% ethanol.
It was found that the investigated alkyl substituents lower the dissociation constant
of ferrocenecarboxylic acid by approximately the same amount while all other
substituents increase it. With the exception of halides the majority of substituents
have an inductive effect on the dissociation constants of heteroannular ferrocene-

Card 1/2

L 36634-65
ACCESSION NR: AP5001517

carboxylic acids. It was concluded that induction conductivity of ferrocenyl and benzene rings are about the same. Orig. art. has: 2 tables and 1 figure

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR
(Institute of Organometallic Compounds, Academy of Sciences, SSSR); Moskovskiy gosu-
darstvennyy universitet im. M. V. Lomonosova) Moscow State University

SUBMITTED: 06Jul64

ENCL: 00

SUB CODE: OC, EC

NR REF SOV: 005

OTHER: 007

Card 2/2

PEREVALOV, V.S.

Studying dynamic loading on the main mechanisms of an UER-type
excavator by means of an electron model. Nauch. trudy Mosk.
inst. radioelek. i gor. elektromekh. no. 49 pt. 2:31-39 ' 64
(MIRA 19:1)

V. Effect of structural factors on conjugation phenomena.
V. Adducts of the C-C link in some compounds containing the triphenylmethyl group. A. N. Nevezynov,
V. V. Dzhobava, N. A. Vukman, and I. V. Shalivina
(M. V. Lomonosov State Univ., Moscow). Izv. Akad.

Nauk SSSR, Khim. Nauk 1051, 1072-8; cf.
Uchen. Zapiski Moskov. Gosudarstv. Univ., 132, No. 7,
(1950); 14, 48, 1951.---Crystal violet base, Me ether
(13 g.) and 15 g. AcOH after 4 hrs. at 95-100° gave 40%
2,2,2-tri(p-dimethylaminophenyl)propanaldehyde (I), m.
71.5-3.0° (from $\text{CaH}_2\text{-EtOH}$), and some 0.3 g. unknown.

substance, $\text{C}_{17}\text{H}_{20}\text{NO}_2$, m. 220-3° (from MePh), which was
more sol. It forms the ρ -nitrophenylphenoxy, decomps.
187-8° (from $\text{CaH}_2\text{-EtOH}$), and oxime, decomps. 205-7°.
Heating with ArOH yields AcII (64% recovered) and the
trace base, m. 173-8°; similar cleavage of I occurs on
heating with other carboxylic acids. I refluxed with NaO
 Br similarly underwent cleavage and gave (after
refluxing with NaCl in MePh 4 hrs.) the same result as
observed with hot ArOH. Similarly was prep'd. from
 KCHO 87% α -methyl- β , β -dial(p-dimethylaminophenyl)-
propanaldehyde, m. 168.0-70.8°; 2,2-dimethylphenylhydro-
xane, decomps. 163-4°. The substance is readily cleaved by
hot ArOH into AcII and the trace base of crystal violet;
similar cleavage occurs with $\text{MgBr}\cdot\text{CHCl}_2\text{:CHClO}$ (yields 88% 2,2,2-tri(p-dimethylaminophenyl)-3-pentanol, m.
186-6°; ρ -nitrophenylphenoxy), m. 200-2° (contains 1
 EtOH , lost on crystallization from $\text{CaH}_2\text{-EtOH}$); oxime, m. 194-6°
(from EtOH , contains 1 EtOH). This product also readily yields
crystal violet trace base and probably $\text{CHCl}_2\text{:CHClO}$ on
heating with ArOH or $\text{MgBr}\cdot\text{CHCl}_2\text{:CHClO}$. Heating crystal violet base
2,2,2-tri(p-dimethylaminophenyl)-1-methane, m. 103-3°
(decomp., from $\text{CaH}_2\text{-EtOH}$); this is also readily cleaved
however, is ineffective, but MgBr is still an active cleaving

Orme

(from 20 g. CH_3CHCl_2) gave 65% *trans*-*p*-dimethylaminophenyl-*trans*-3-butene, m. 123-4° (from CaH_2 -EtOH), which with 50% HBr with cooling gave the dienoate, m. 173-4° (decomposition, from CaH_2 -EtOH). The allyl deriv. decomposes in ultraviolet light, yielding crystal violet; heating with MgBr_2 does not yield crystal violet. The results are interpreted in terms of the conjugated system existing in 1,6-conjugation with the reaction center to the C-C link of the terminal C of the PhOC group. VI. Dehydration of the unsaturated link in some compounds containing the triphenylmethyl group. A. N. Nenneryanov, N. A. Veltman, and E. G. Pervakov, *J. Russ.*, 609-707. Reduction of $(p\text{-Me}_2\text{NC}_6\text{H}_4)_2\text{CCl}_3\text{NO}$ (I) with BaC_2 in HCl 3 hrs. at 100° and neutralization with NH_4OH gave *trans*-*p*-dimethylaminophenylbutanediol, m. 220-4° (from CaH_2 -EtOH); *trans*, m. 270-8° (from CHCl_3 -EtOH); *trans*-*p*-dimethylaminophenylbutane, m. 220-4°; *p*-dimethylaminophenylbutene, was tosilyl enol ether; reduction with Zn dust in HCl gave 80% 1,1,1-tris(*p*-dimethylaminophenyl)ethane, m. 175-6° (from CaH_2 -EtOH); reduction with $\text{Na}-\text{EtOH}$ or Zn dust in AcOH failed. The adduct with 8 moles MeLi showed no tendency to react. Reducing I with concd. HCl 12 hrs. gave *trans*-*p*-dimethylaminophenylacetic Acid (II), m. 200-2° (in a sealed tube), which with EtONa -EtOH gave the Na salt, decomps. 200-7°. Refluxing the acid with EtONa -EtOH gave the Et_2O ester, m. 173-4° (from EtONa -EtOH); the ester is unchanged by hot AcOH and does not

react with EtMgBr . Heating the free acid 3 hrs. with SOCl_2 gave *trans*-CO, while heating the residue with NaBH_4 and reduction of the violet base with NaBH_4 gave 71.8% crystal violet base. The acid does not react with SOCl_2 in the cold. With POCl_3 in CHCl_3 the acid yields 55% CO and the residue behaves as above; PCl_3 or PCl_5 also causes CO evolution and formation of crystal violet. Reactions 1.3 hrs. with concd. HCl and neutralization with NH_4OH gave (*p*-Me₂NC₆H₄)₂CCl₃N → O, decomps. 212-13° (from CaH_2), which, boiled with concd. HCl 10 hrs., yields II and HONH_2 ; with $\text{Zn}-2\text{N HCl}$ it gives 80% *trans*-*p*-dimethylaminophenylbenzimidazole, m. 230-6°, also obtained from crystal violet and KCN ; reduction with $\text{SnCl}_2\text{-HCl}$ is similar, but no reaction takes place with $\text{Na}_2\text{S}_2\text{O}_4$ while NaBH_4 causes decomps. The nitrile oxide boiled with AcONa gives 97% crystal violet base (after the reduction step). Crystal violet with PhMgBr gave 1,1-*trans*-*p*-dimethylaminophenylbutane, m. 131-3° (from CHCl_3 -EtOH), and a larger amnt. of crystal violet base. The butane deriv. is identical with that obtained by hydrogenation of the allyl analog over Pt-C. G. M. Krestanoff

PEREVALOVA, E.G.

USSR/ Chemistry - Organic chemistry

Card 1/2 Pub. 40 - 8/27

Authors : Nezmyanov, A. N., and Perevalova, E. G.

Title : Alykylation and acylation of chloromercuriacetaldehyde

Periodical : Izv. AN SSSR. Otd. khim. nauk 6, 1002-1007, Nov-Dec 1954

Abstract : It was established that the reaction of mercurized acetaldehyde with acid halides of carboxylic acid and tri-(p-nitrophenyl) bromomethane results in the formation of homologous vinyl ethers. The reaction takes place with the transfer of the reaction center according to the system of conjugated hg-C and C-O bonds.

Institution : The M. V. Lomonosov State University, Moscow

Submitted : March 15, 1954

Periodical : Izv. Akad. SSSR. Otd. khim. nauk 6, 1002-1007, Nov-Dec 1954

Card 2/2 Pub. 40 - 8/27

Abstract : It was found that triphenylbromomethane plus mercurized acetaldehyde form triphenylmethylacetic aldehyde, i. e. C-alkylation takes place without shift of the reaction center. The derivation of hitherto unknown vinyl ethers of trichloroacetic, phenylacetic, triphenylacetic, p-nitrobenzoic acids and phthalylglycidine is announced. The synthesis and ozonization of triphenylallylmethane are described. Eight references: 3 USSR, 4 USA and 1 German (1927-1953).

PEREVALOVA, E. G.

USSR/ Chemistr - Displacement

Card : 1/1

Authors : Nesmeyanov, A. N., Academician, Perevalova, E. G., Golovnya, R. V. and

Nesmeyanova, O. A.

Title : Reactions of ferrocene hydrogen displacement

Periodical : Dokl. AN SSSR, 97, Ed. 3, 459 - 461, July 21, 1954

Abstract : The remarkable thermal and chemical stability, resistance to pyrolysis, acids and alkalis, of ferrocene (dicycloferropentadiene), are discussed. Ferrocene cannot be nitrated, sulfonated or halogenated but shows a great tendency toward displacement reactions. During proper metallization ferrocene is capable of forming mixed organo-metallic compounds the chemical structures of which are described. Three USA and 1 German references.

Institution : The M. V. Lomonosov State University, Moscow

Submitted : May 20, 1954

PEREVALOVA, Ye. G.

KESMBYANOV, A.N., akademik; PEREVALOVA, Ye.G.; GOLOVNYA, R.V.

Reaction of ferrocene with diazo compounds. Dokl. AN SSSR 99 no.4:
539-542 D '54. (MIRA 8:2)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Diazocompounds) (Iron dicyclopentadienyl)

USSR/ Chemistry

Card 1/2 Pub. 22 - 18/47

Authors : Nesmeyanov, A. N., Academician; Perevalova, E. G.; and Nesmeyanova, O. A.

Title : Halide compounds of ferrocene

Periodical : Dok. AN SSSR 100/6, 1099-1101, Feb 21, 1955

Abstract : The various halide compounds formed during the reaction of ferrocene with iodine or bromine are listed. Heating of ferrocene with Br in carbon tetrachloride results in the disintegration of the ferrocene and formation of pentabromocyclopentane with melting point of 103-104°.

Institution : The M. V. Lomonosov State University, Moscow

Submitted : December 30, 1954

Periodical : Dok. AN SSSR 100/4, 1099-1101, Feb 21, 1955

Card 2/2 Pub. 22 - 18/47

Abstract : The reaction of ferrocene with iodine in an organic solvent resulted in the formation of a complex containing about 93% iodine which corresponds to twenty iodine atoms per ferrocene molecule. The chemical properties of the complex are described. Three references: 1 USA, 1 USSR and 1 German (1952-1954). Graphs.

PEREVALOVA, E. G.

USSR/ Chemistry

Card 1/1 Pub. 22 - 31/62

Authors : Nesmeyanov, A. N., Academician; Perevalova, E. G.; Golovnya, R. V.; and Shilovtseva, L. S.

Title : About arylferrocenes and ferrocenylamine

Periodical : Dok. AN SSSR 102/3, 535-538, May 21, 1955

Abstract : Using various diazo-compounds the authors synthesized m-nitrophenylferrocene and p-ferrocenylphenol and then utilized the m-nitrophenylphenylferrocene and a previously described p-isomer for the synthesis of m and p-ferrocenyl-anilines. The ferrocenylamine was established to be an orange colored crystalline substance well soluble in organic solvent and when distilled in vacuo it offers acetylene and benzoyl derivatives. Ferrocenylamine chloride is soluble in water but not in hydrochloric acid. Four references: 3 USSR and 1 USA (1941-1955). Graphs.

Institution : The M. V. Lomonosov State Univ., Moscow

Submitted : March 22, 1955

PEREVALOVA, E. G.

USSR/ Chemistry - Organic chemistry

Card 1/1 Pub. 22 - 21/46

Authors : Nesmeyanov, A. N., Academician; Perevalova, E. G.; and Golovnya, R. V.
Title : Effect of a ferrocenyl substitute on the functional groups in the benzene ring

Periodical : Dok. AN SSSR 103/1, 81-82, Jul 1, 1955

Abstract : The dissociation constants of p-ferrocenylaniline, m-ferrocenylaniline, ferrocenylamine and p-ferrocenylphenol are analyzed. It is shown that ferrocenyl as an electron-donor group is much stronger than the phenyl group. The ferrocenyl group introduced into the benzene ring was found to behave as an ortho-para-orientant substitute. It was established that ferrocenylamine is 21 times a more powerful base than aniline itself. Four references: 3 USSR and 1 USA (1938-1955). Table.

Institution : Moscow State University im. M. V. Lomonosov

Submitted : April 30, 1955

Perevalova, E.G.

Destruction of the ferrocene ring by hydrogenation and
action of halogens. S. A. Goryainov, P. G. Perevalova,
P. V. Chubarev, T. V. Moshina, and N. A. Vinogradova.
Russ. Acad. Sci. U.S.S.R., Dokl. Chem. Sci. 1955, 740-51.
(English translation Sov. Chem. Sci. 1956, No. 5, p. 51.)

PEREVALOVA, E.G.

NESEYANOV, A.N.; LAVRUSHIN, V.P.; SHMAYEVA, T.M.; PEREVALOVA, E.G.

Cleavage of the C -- C bond in compounds containing triphenylmethyl grouping. Izv.AN SSSR.Otd.khim.nauk no.3:309-312 Mr '56.(MLRA 9:8)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova
1 Khar'kovskiy gosudarstvennyy universitet imeni A.M. Gor'kogo.
(Carbon compounds)

NESMEYANOV, A.N.; PEREVALOVA, E.G.; GOLOVNYA, R.V.; NIKITINA, T.V.; SIMUKOVA, N.A.

Disruption of the ferrocene nucleus by hydrogenation and treatment with
halides. Izv.AN SSSR Otd.khim.nauk no.6:739-741 Je '56. (MLRA 9:9)

1.Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Iron dicyclopentadienyl)

PEREVALOVA, E.G.

REF ID: A6513

✓ Reduction of ferric citrate by yeast. A. N. Neogi-

say, B. C. Jyoti Singh and K. A. Ramanathan (1962)

J. Indian Inst. Sci., 52, 112, 113-20 (1962). To 100 ml. 10 g. Na

carbonate dissolved in water was added 10 g. ferric citrate, 10 g.

yeast, 10 g. sucrose and 10 g. lactose, the

solution being well stirred, reduced 8 hrs. on a dry heat

stove until 10 percent Ba(OH)₂ was added to precipitate the

iron hydroxide and 10 ml. 10% NaOH was added to

neutralize the citric acid. The precipitate was collected

and washed with water and dried at 100°C. Yield 50%

✓ Reduction of ferric citrate by yeast. A. N. Neogi-

say, B. C. Jyoti Singh and K. A. Ramanathan (1962)

J. Indian Inst. Sci., 52, 112, 113-20 (1962). To 100 ml. 10 g. Na

carbonate dissolved in water was added 10 g. ferric citrate, 10 g.

yeast, 10 g. sucrose and 10 g. lactose, the

solution being well stirred, reduced 8 hrs. on a dry heat

stove until 10 percent Ba(OH)₂ was added to precipitate the

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✓ Reduction of ferric citrate by yeast. A. N. Neogi-

say, B. C. Jyoti Singh and K. A. Ramanathan (1962)

J. Indian Inst. Sci., 52, 112, 113-20 (1962). To 100 ml. 10 g. Na

carbonate dissolved in water was added 10 g. ferric citrate, 10 g.

yeast, 10 g. sucrose and 10 g. lactose, the

solution being well stirred, reduced 8 hrs. on a dry heat

stove until 10 percent Ba(OH)₂ was added to precipitate the

iron hydroxide and 10 ml. 10% NaOH was added to

neutralize the citric acid. The precipitate was collected

and washed with water and dried at 100°C. Yield 50%

Pereva Lova, E. G.

20-2-28/60

AUTHORS: Nesmeyanov, A. N., Member of the Academy,
Perevalova, E. G., Churanov, S. S.

TITLE: Ferrocene Sulphoacids (Ferrotsensul'fokisloty)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 2, pp. 335-338
(USSR)

ABSTRACT: The authors produced these compounds by using the method devised by A. P. Terent'yev and consisting of action by pyridinsulphotrioxide on ferrocene. V. Weinmayr obtained them at the same time only as ammonium salts at interaction of ferrocene and sulphuric acid in acetic anhydride. The paper under review describes the ferrocene sulphonation by pyridinsulphotrioxide in dichlorethane and by dioxansulphotrioxide, further the insulation of the free mono- and di-ferrocenesulphonic acid, of some of its salts, of the methylethers and of chloranhydride of the ferrocenesulphonic acid. In the above-mentioned reaction, which is brought about by heating through four hours, the mono-acid (84 % of the ferrocene entering the reaction) is produced. 22 % of ferrocene remain unchanged. By longer heating, 41 % of the dio-acid with small

Card 1/3

... are soluble in organic

20.1-2B/KC

Ferrocene Sulphoacids

solvents. Chlorine anhydride or the mono-acid is easily produced with good yield at shorter heating of the mono-acid or of its lead salt, with abundance of PCl_3 . Unlike aromatic sulphonic acids, the acids under consideration are less hygroscopic and they are more easily insulated in their free state. The experimental part of the paper under review contains a description of the production methods together with constants and yields. There are 3 references, 2 of which are Soviet.

SUBMITTED: January 12, 1957

AVAILABLE: Library of Congress

Card 3/3

NESMEYANOV, A.N., akademik; PEREVALOVA, N.G., kand. khim. nauk.

New aromatic systems. Report No.1: Ferrocene as an aromatic system.
Khim. nauka i prom. 3 no.2:146-158 '58. (MIRA 11:6)
(Organic compounds) (Iron)

AUTHORS: Nesmeyanov, A. N., Perevalova, E. G. (Moscow) 74-27-1-1/4

TITLE: Cyclopentadienyl Compounds of Metals and Compounds Related to Them (Tsiklopentadiyenil'nyye soyedineniya metallov i rodstvennyye soyedineniya)

PERIODICAL: Uspekhi Khimii, 1958, Vol. 27, Nr 1, pp. 3-56 (USSR)

ABSTRACT: Initially the author deals with the problem of the possible separation of organic iron compounds. In 1951 - 1952 a special class of metalorganic compounds (special as to their structure and properties) was discovered. When trying to synthesize dicyclopentadienyl, $C_5H_5 - C_5H_5$, Kealy and Pauson obtained a substance containing iron and hydrogen, which later was called ferrocene and which attracted the attention of all chemists. In the course of the further investigation of the dicyclopentadienyl derivatives also the problem of the limits of the possibility of applying the theory of valence became topical. A detailed description of the methods of obtaining dicyclopentadienyl compounds of the metals is following. On the physical properties and the structure of the ferrocene: The first investigations showed that its

Card 1/3